

Title (en)
Semiconductive ceramic composition and semiconductive ceramic element using the same

Title (de)
Fern-Berichtssystem für ein Fahrzeug

Title (fr)
Système de communication à distance pour un véhicule automobile

Publication
EP 1227507 A1 20020731 (EN)

Application
EP 02004742 A 19981007

Priority
• EP 98118928 A 19981007
• JP 27580997 A 19971008
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Abstract (en)
A semiconductive ceramic composition having negative resistance-temperature characteristics, wherein the composition comprises lanthanum cobalt oxide as a primary component, and, as secondary components, at least one oxide of B and at least one oxide of an element selected from Si, Zr, Hf, Ta, Sn, Sb, W, Mo, Te, Ce, Nb, Mn, Th, and P. A semiconductive ceramic composition having a resistivity of approximately 10 OMEGA .cm to 100 OMEGA .cm at room temperature is obtained by controlling the amount of additives. Since the resistivity at room temperature can be enhanced to several times or more that of the conventional compositions while characteristics of the conventional compositions are maintained, the composition may be widely applied to control heavy current.

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IPC 8 full level
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Citation (applicant)
EP 0789366 A2 19970813 - MURATA MANUFACTURING CO [JP]

Citation (search report)
[A] EP 0673675 A2 19950927 - STANDARD OIL CO OHIO [US]

Cited by
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EP 0908903 A2 19990414; **EP 0908903 A3 19991208**; **EP 0908903 B1 20030108**; CN 1091436 C 20020925; CN 1172324 C 20041020; CN 1215036 A 19990428; CN 1397958 A 20030219; DE 69810565 D1 20030213; DE 69810565 T2 20030710; DE 69840757 D1 20090528; EP 1227507 A1 20020731; EP 1227507 B1 20090415; KR 100306573 B1 20011114; KR 19990036945 A 19990525; SG 100797 A1 20031226; SG 94316 A1 20030218; TW 460429 B 20011021; US 6090735 A 20000718

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